

Fig. 1

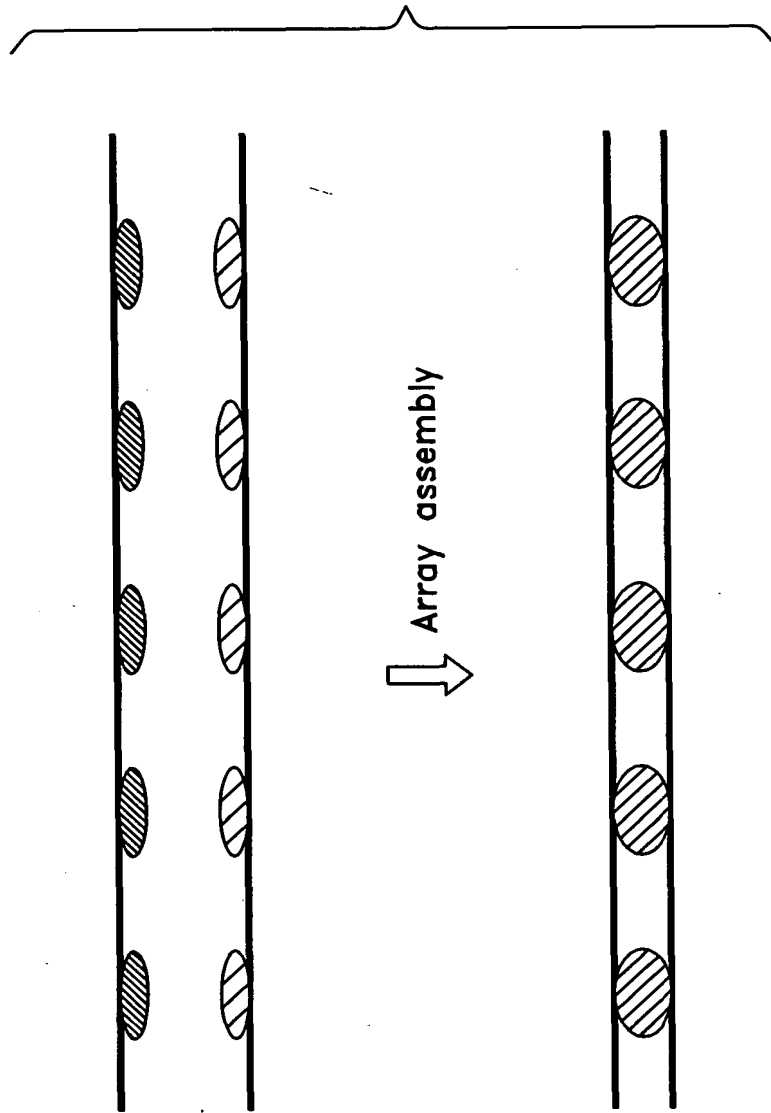
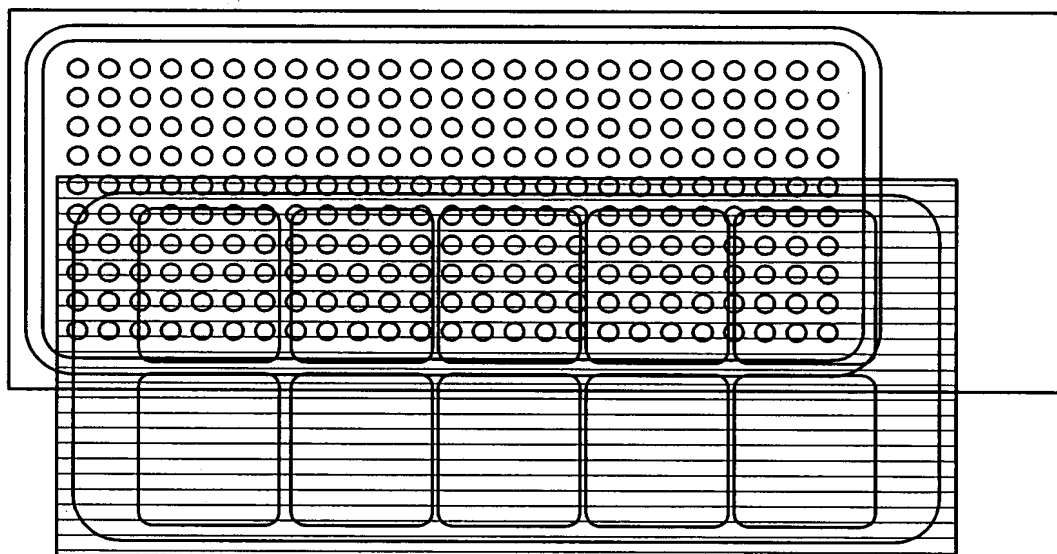


Fig. 2



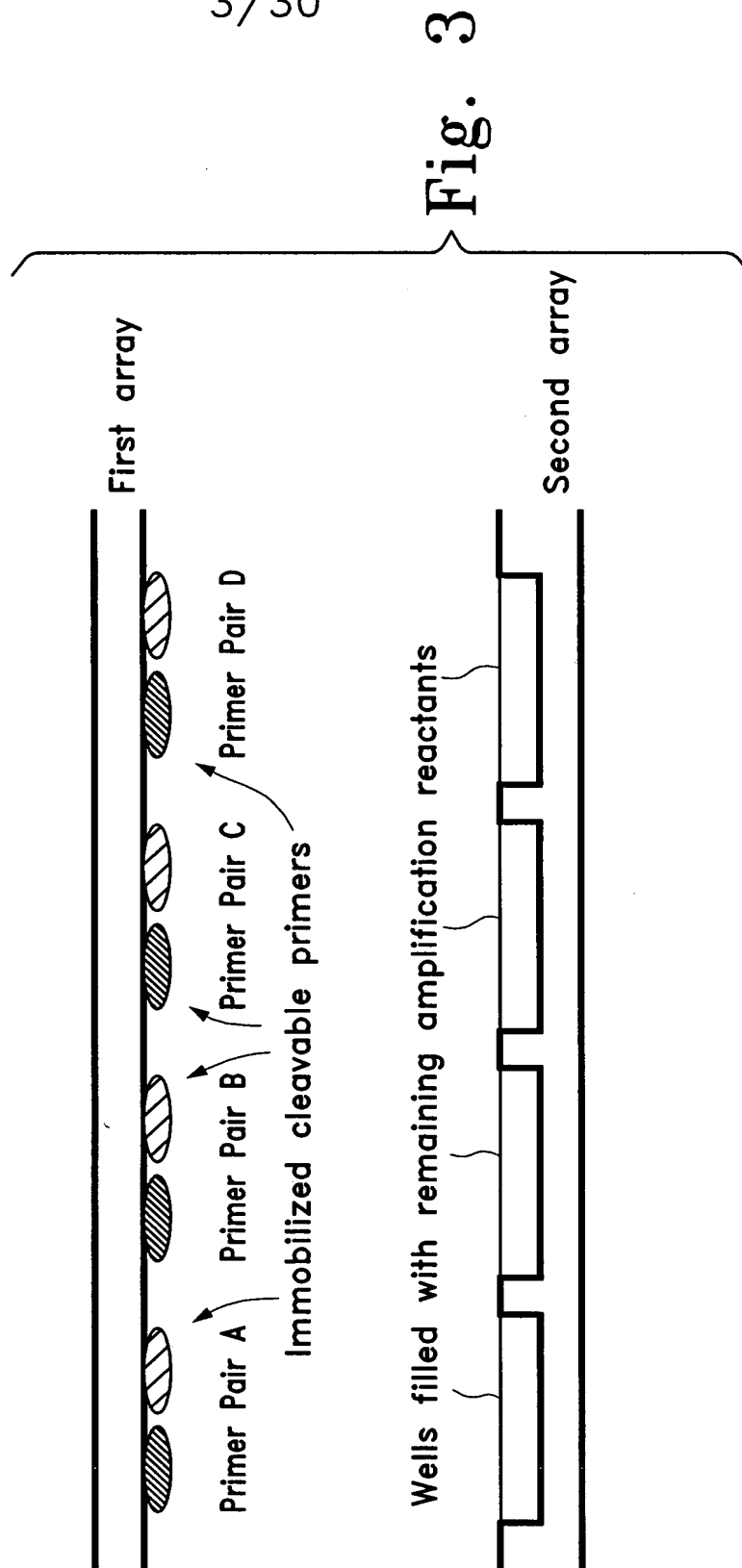
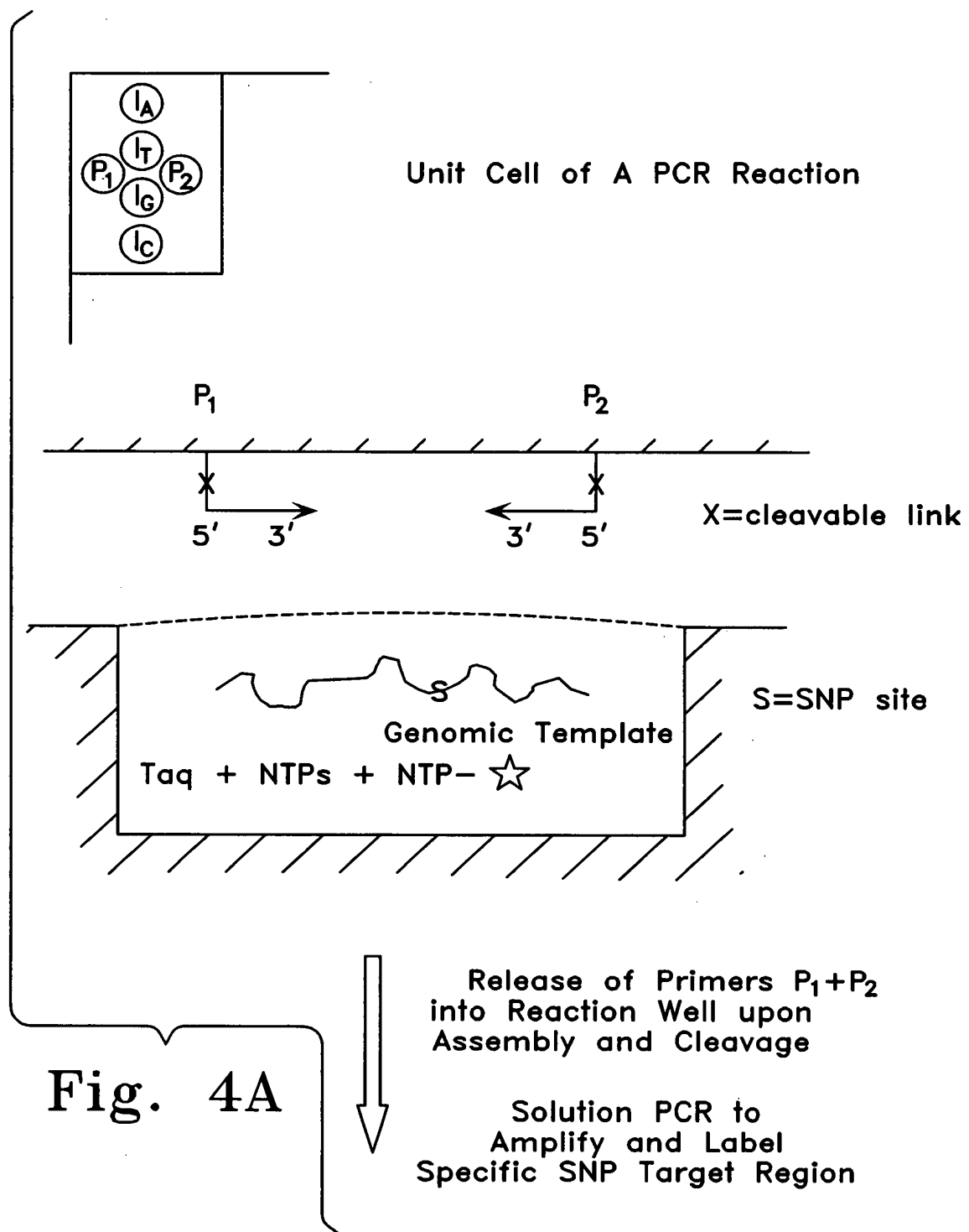
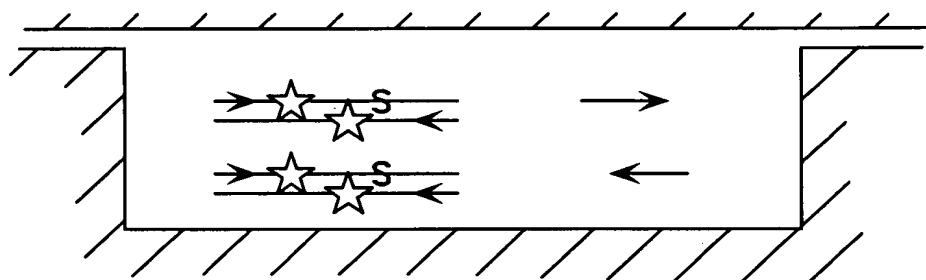


Fig. 3



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Hybridization of  
Labeled PCR Product  
back to  
SNP Specific Probes

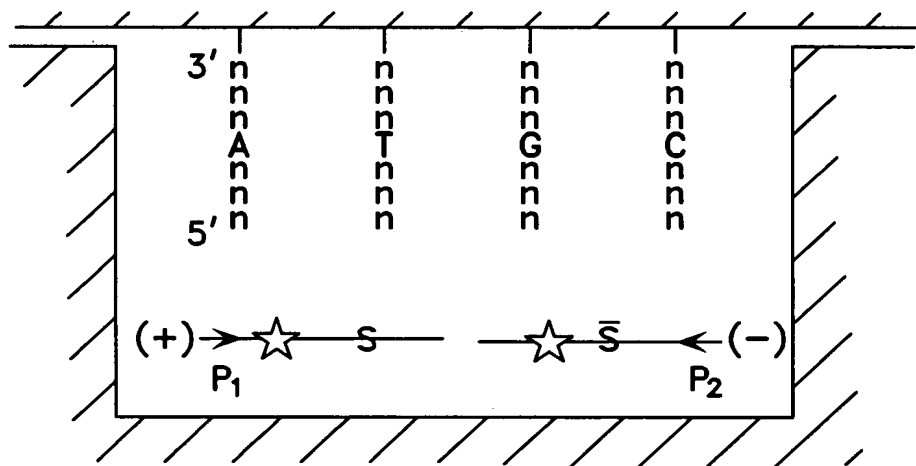
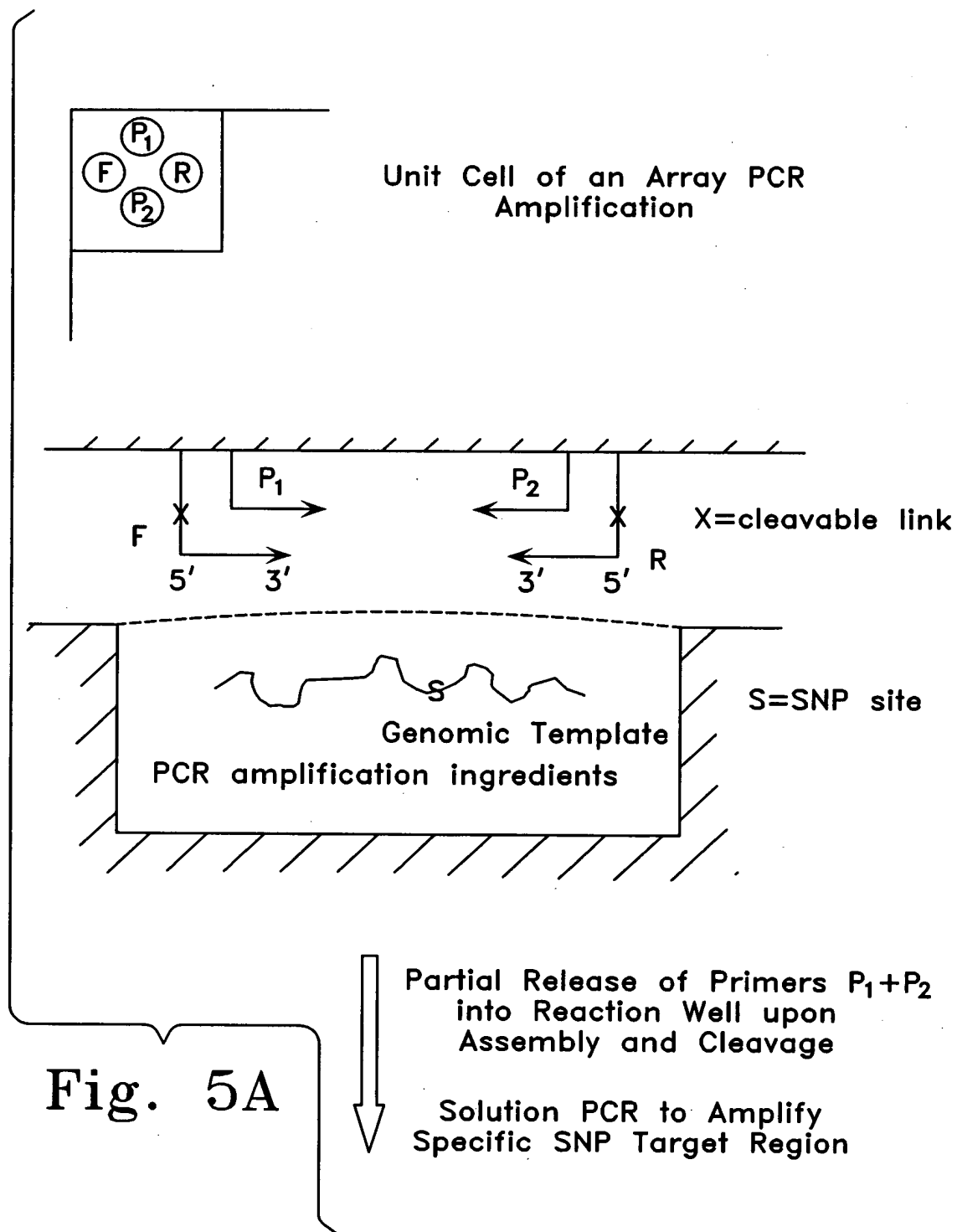
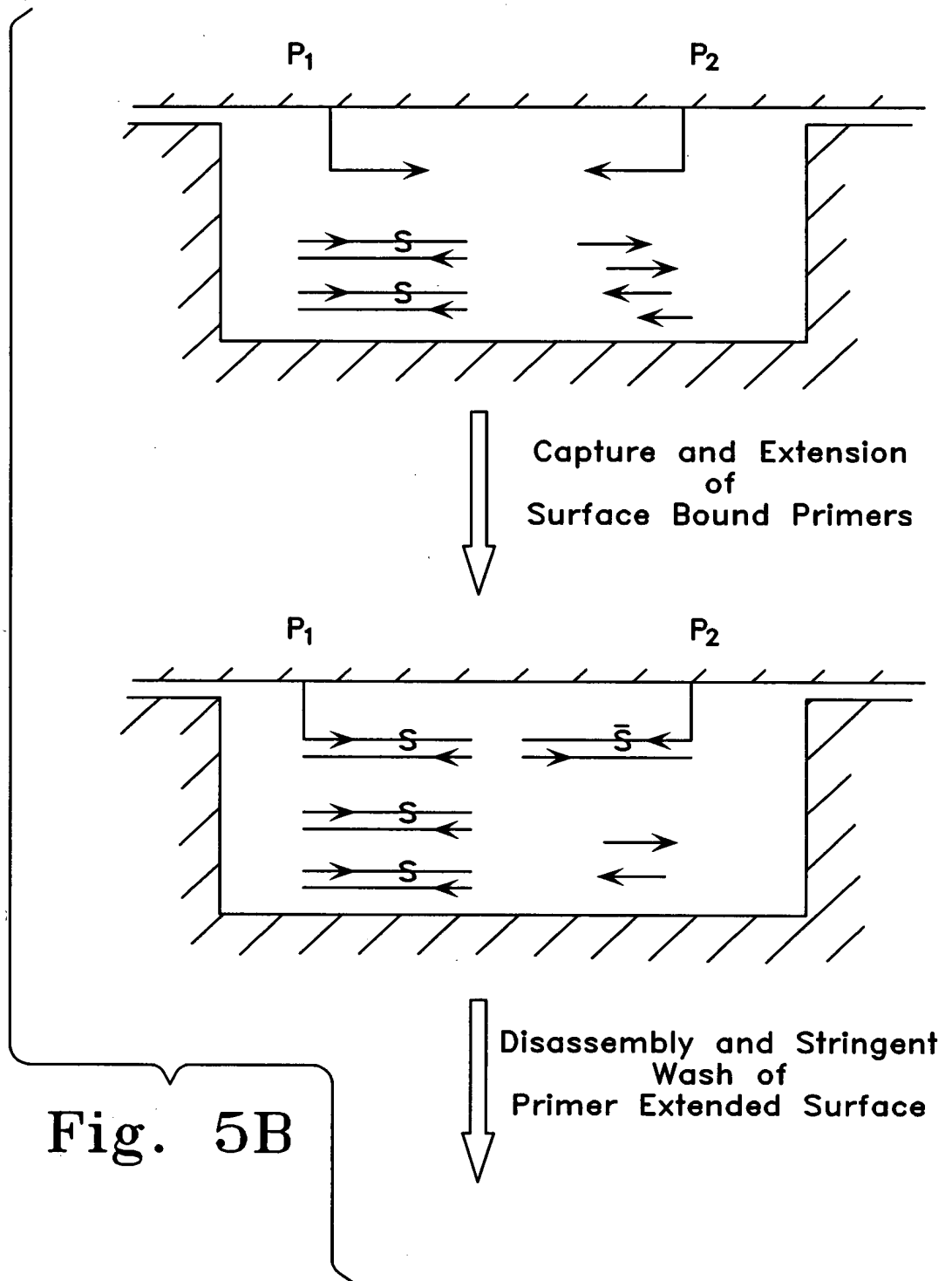


Fig. 4B

A/G pair interrogates (+) strand  
T/C pair interrogates (-) strand

**Fig. 4C**







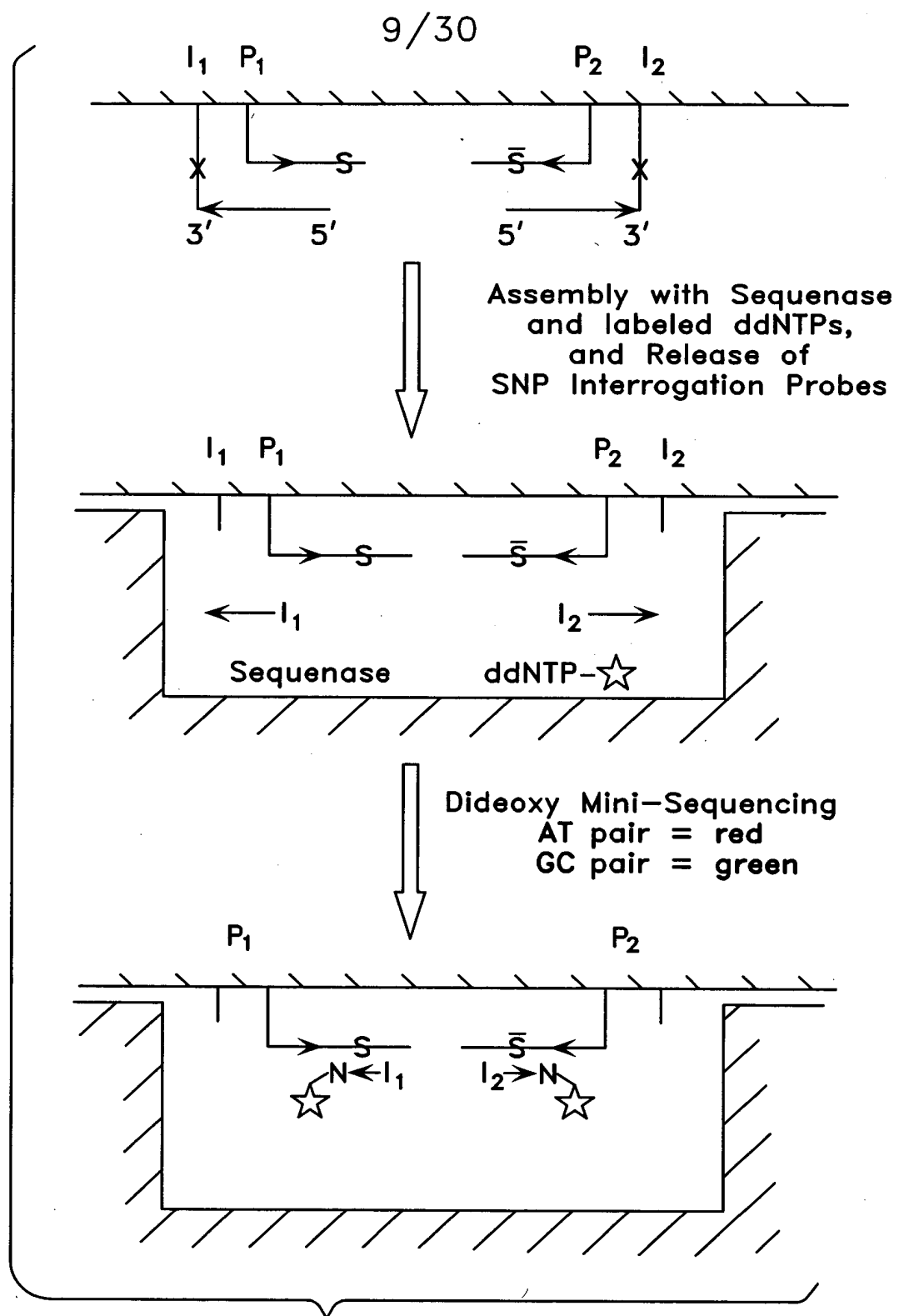


Fig. 5C

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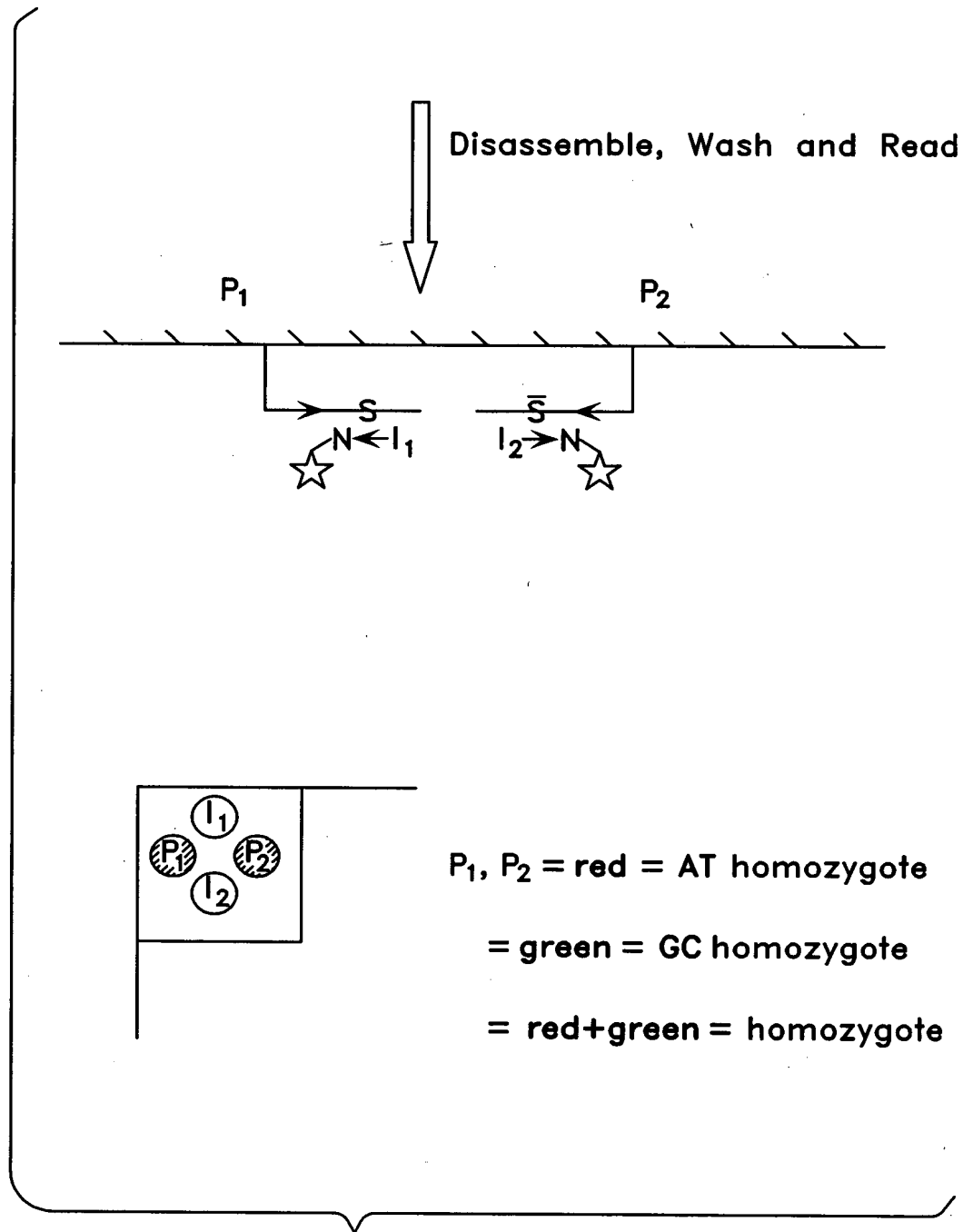
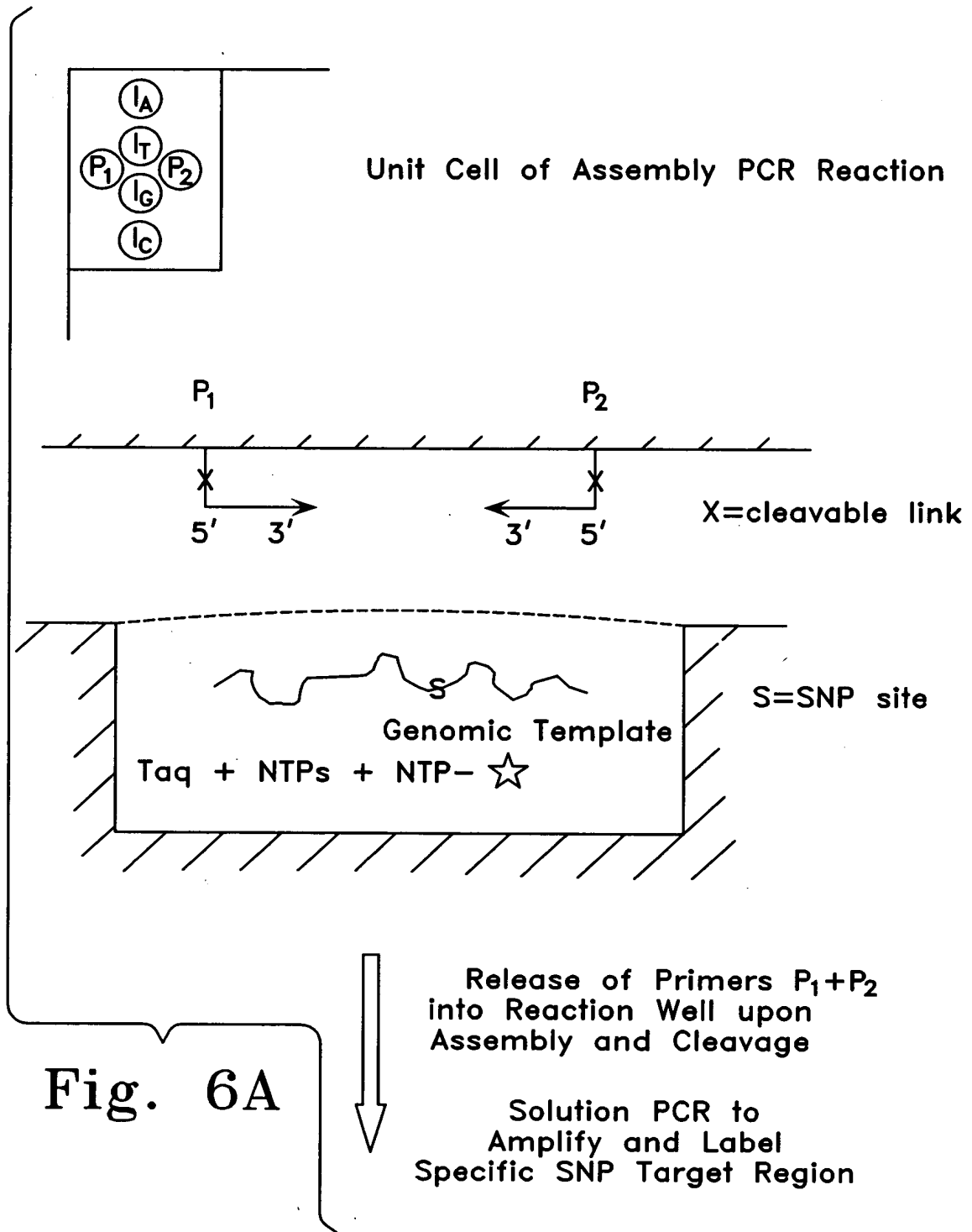
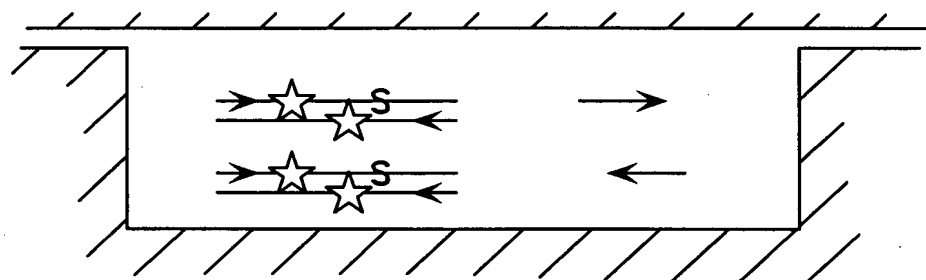


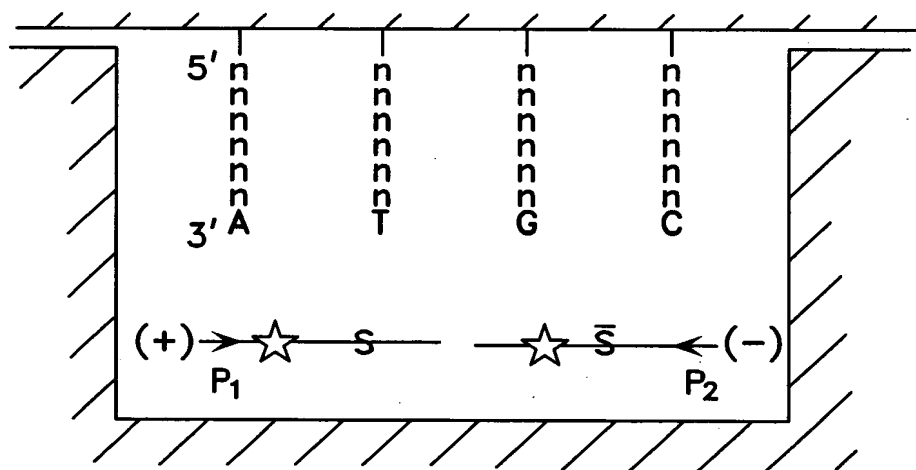
Fig. 5D



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Annealing of Labeled  
PCR Product back to  
SNP Specific Probes



A/G pair interrogates (+) strand  
T/C pair interrogates (-) strand

Fig. 6B

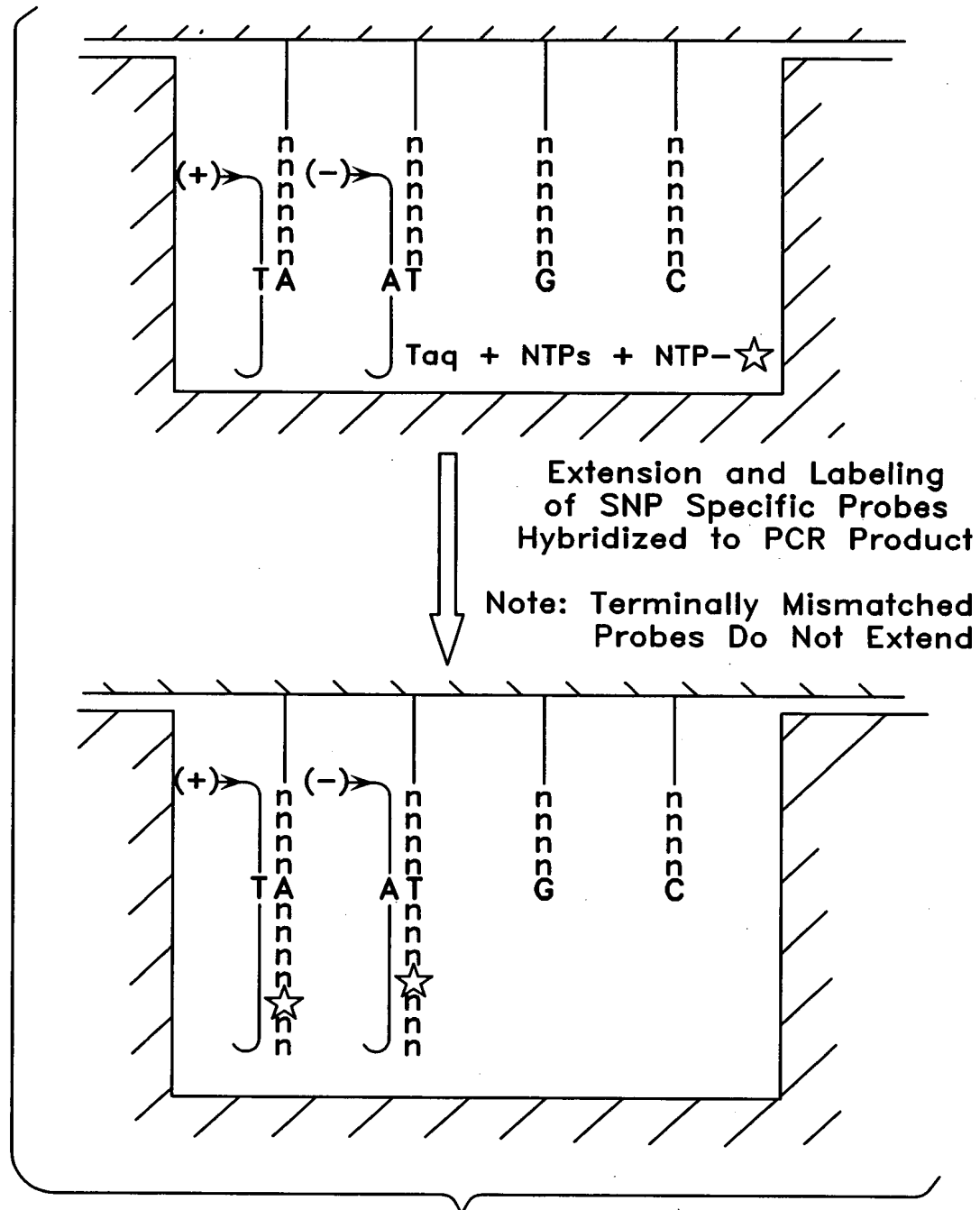


Fig. 6C

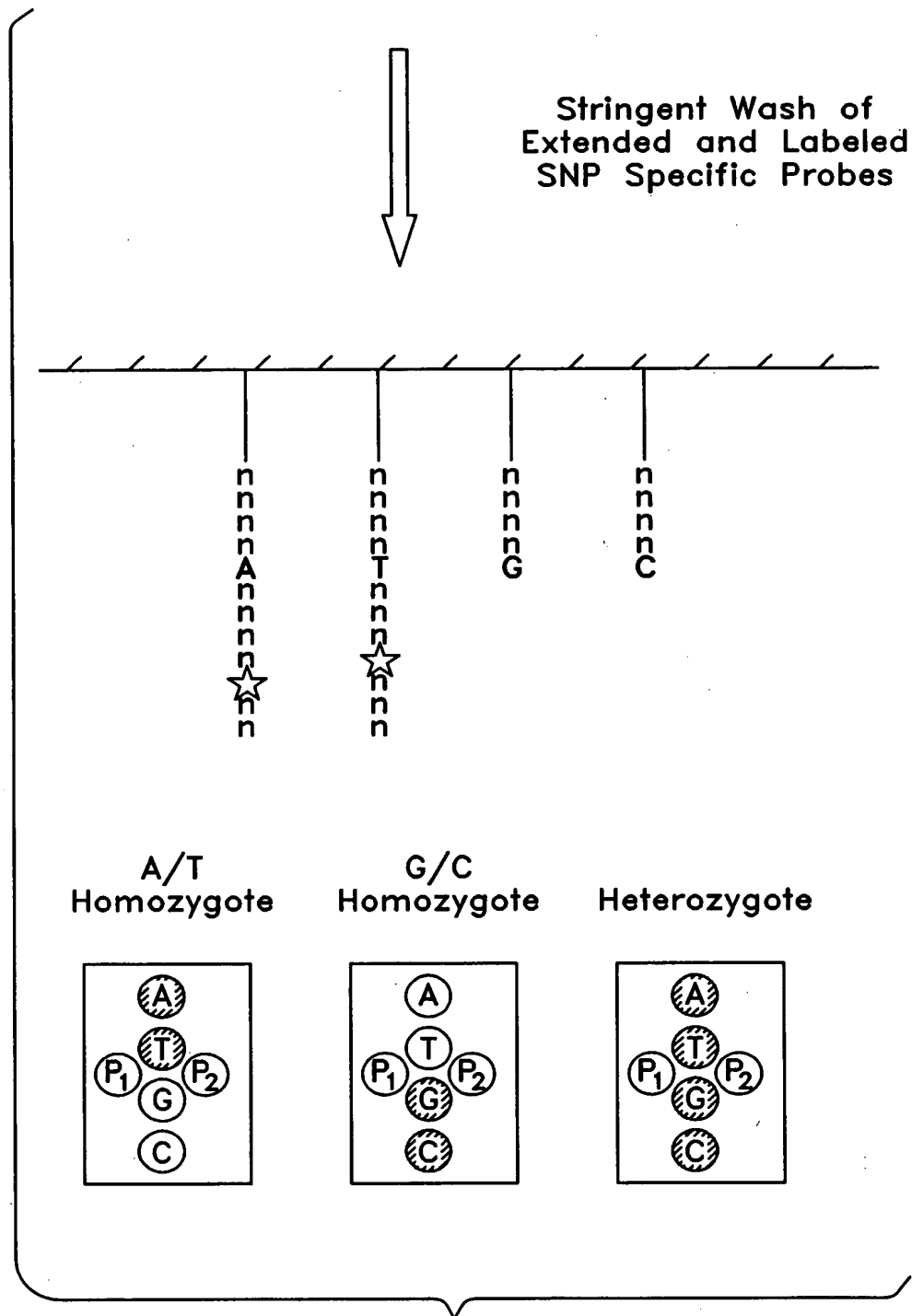


Fig. 6D

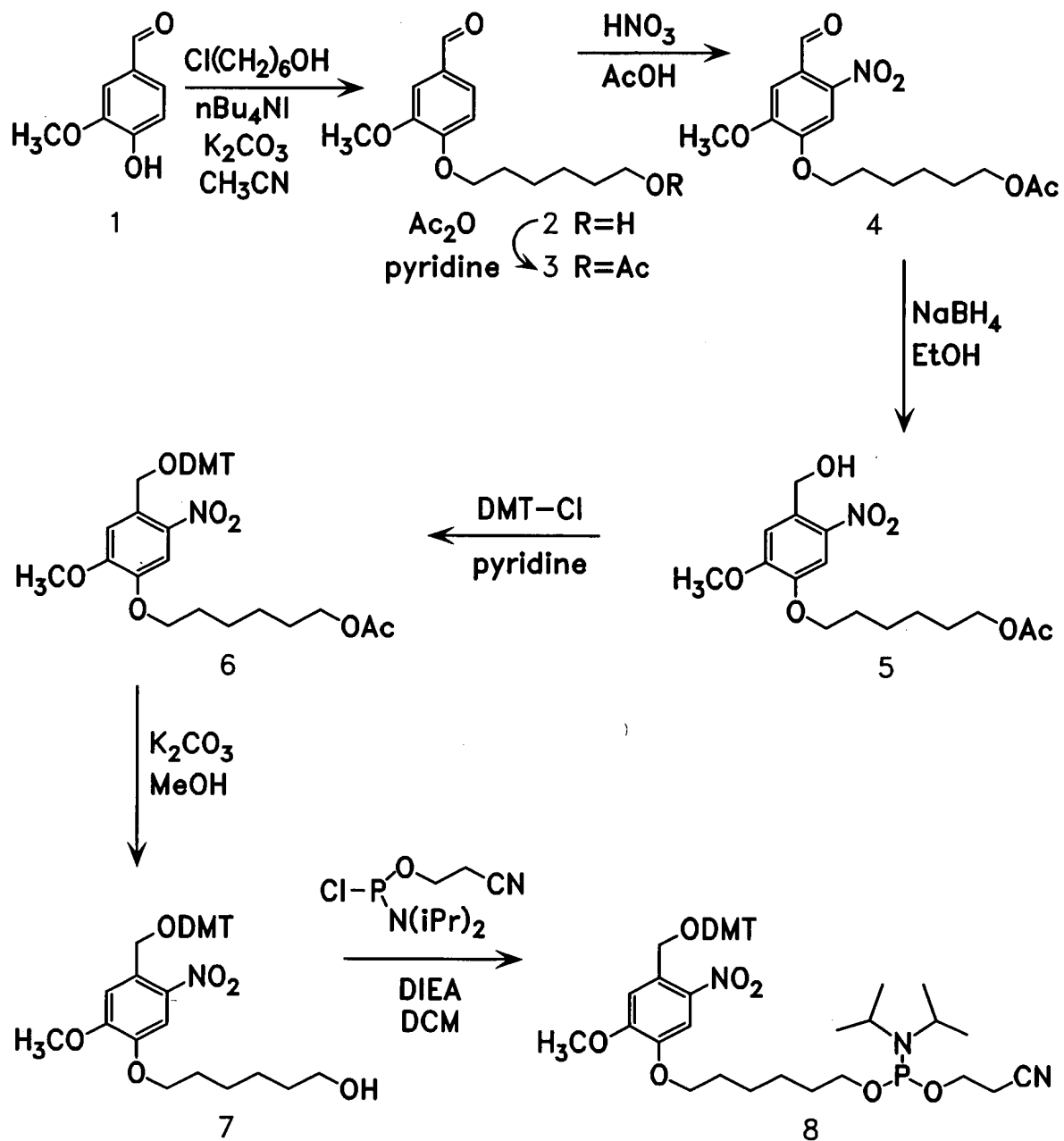


Fig. 7

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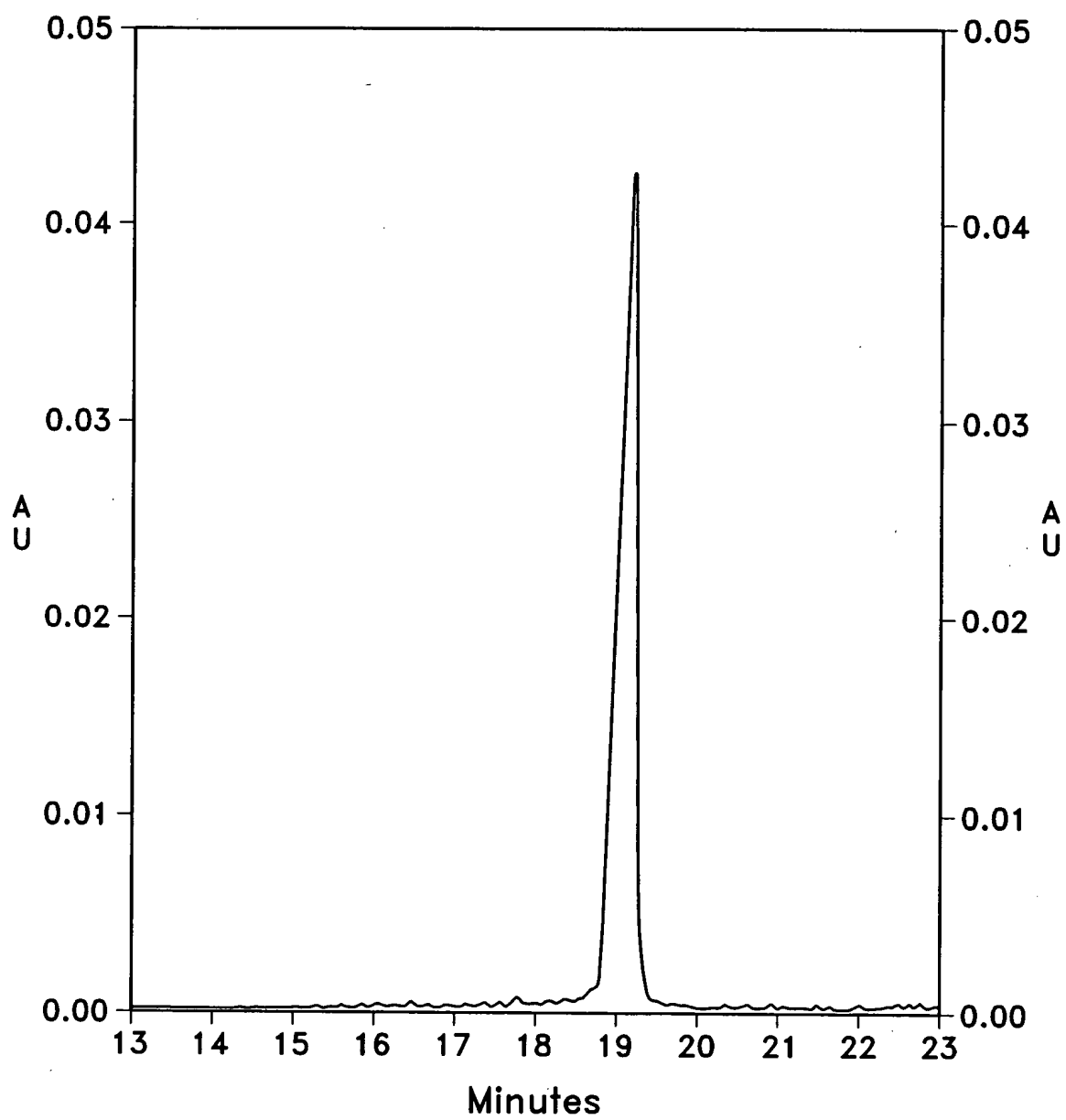


Fig. 8



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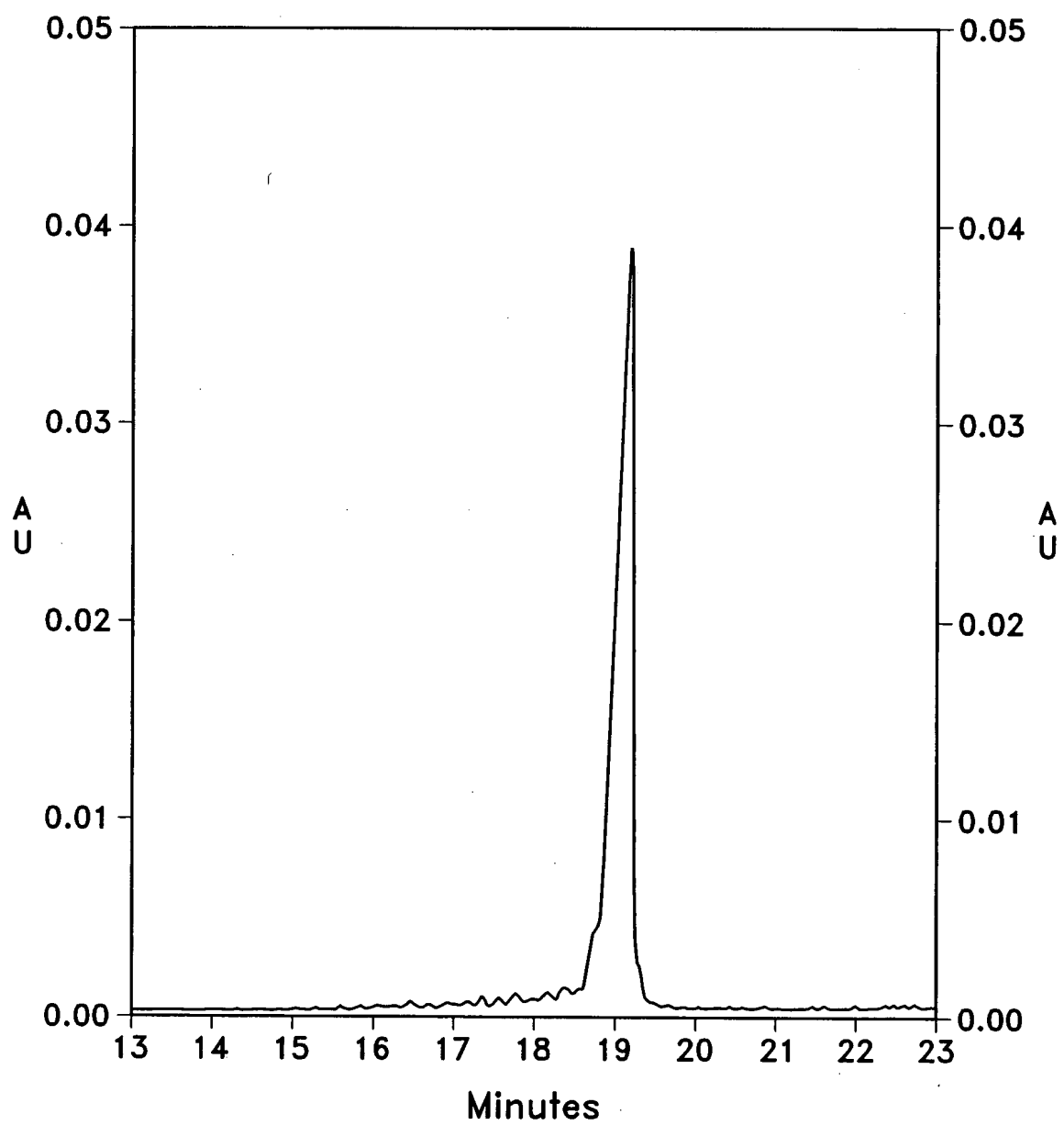


Fig. 9

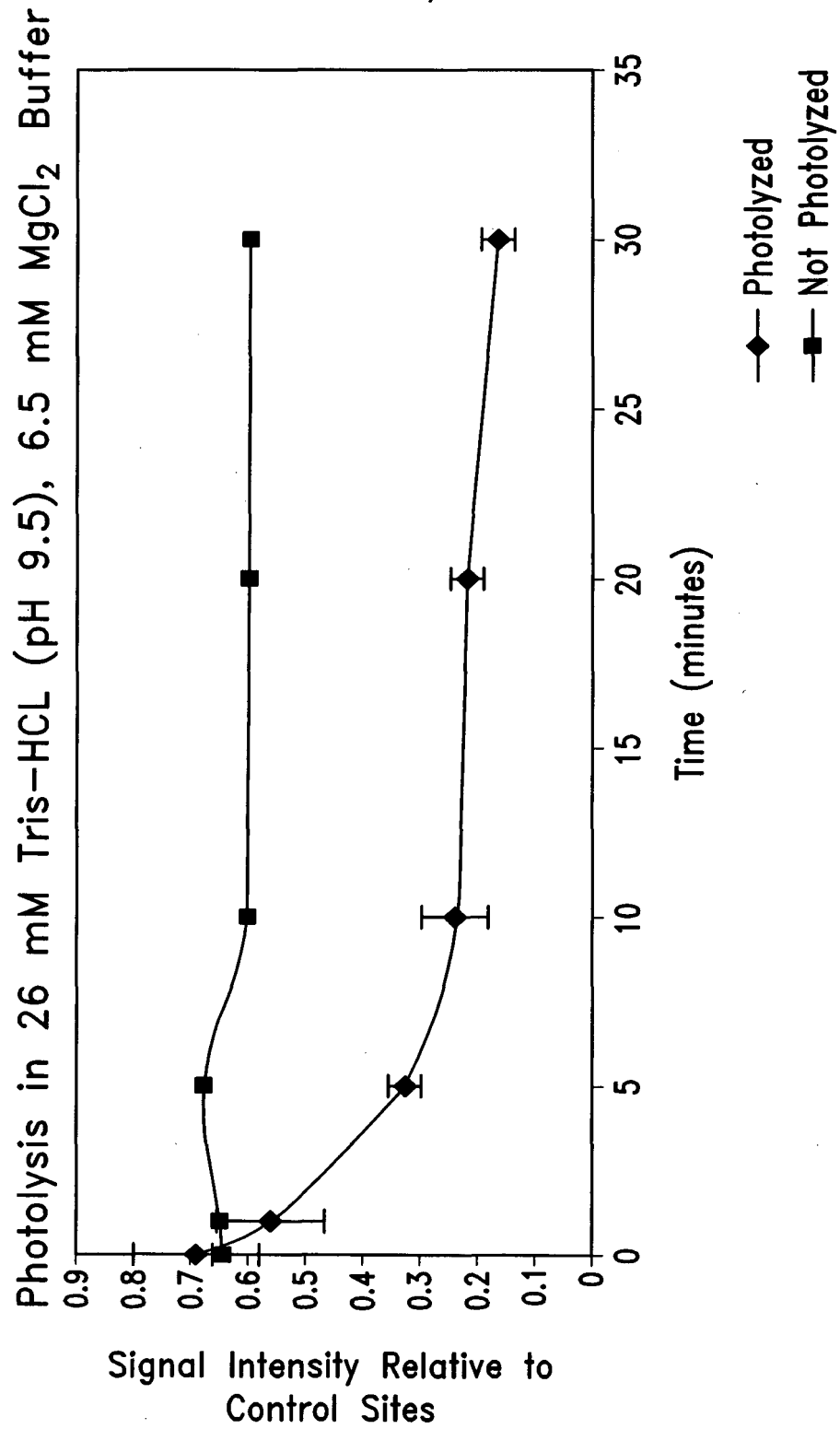


Fig. 10

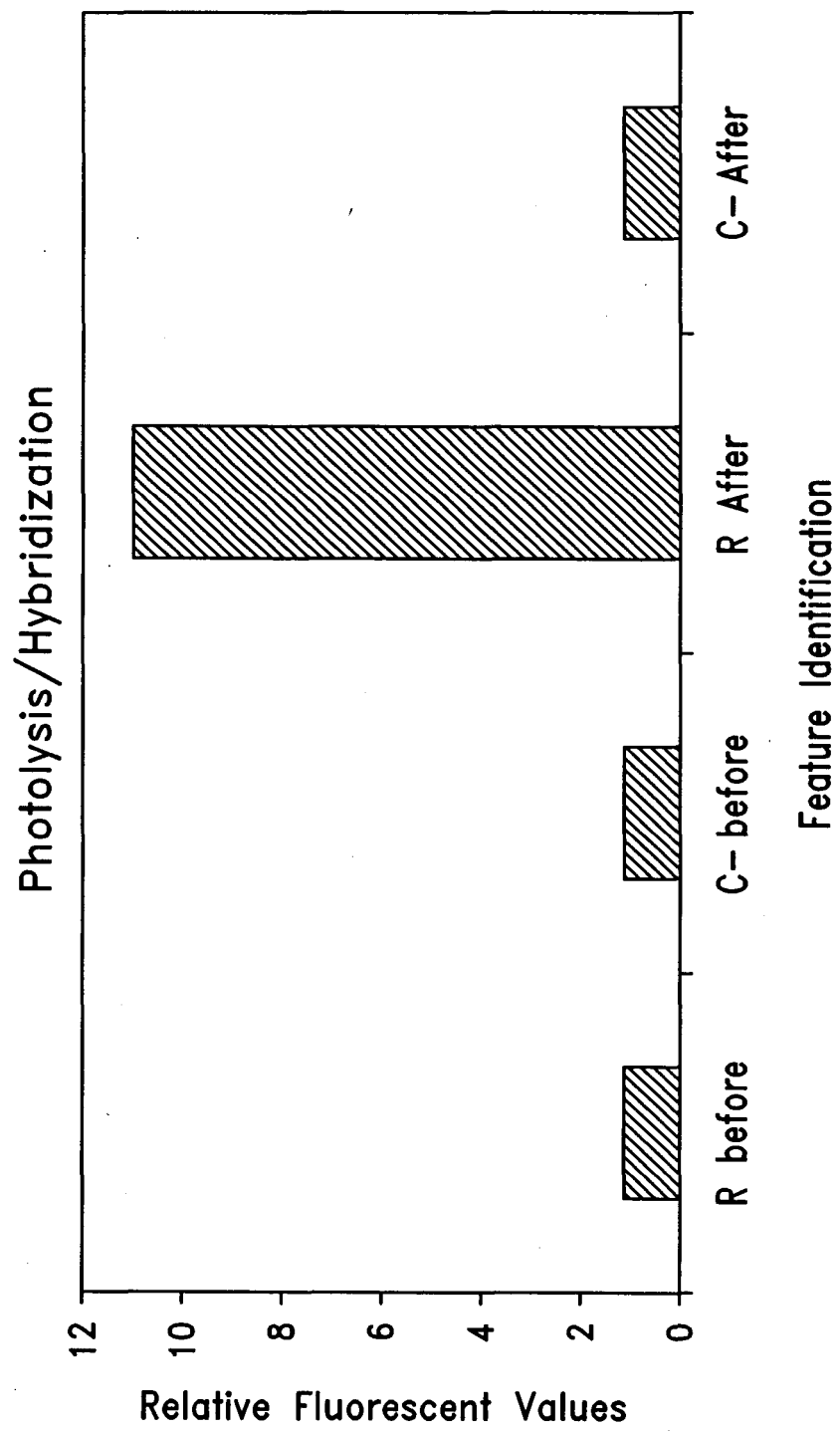


Fig. 11

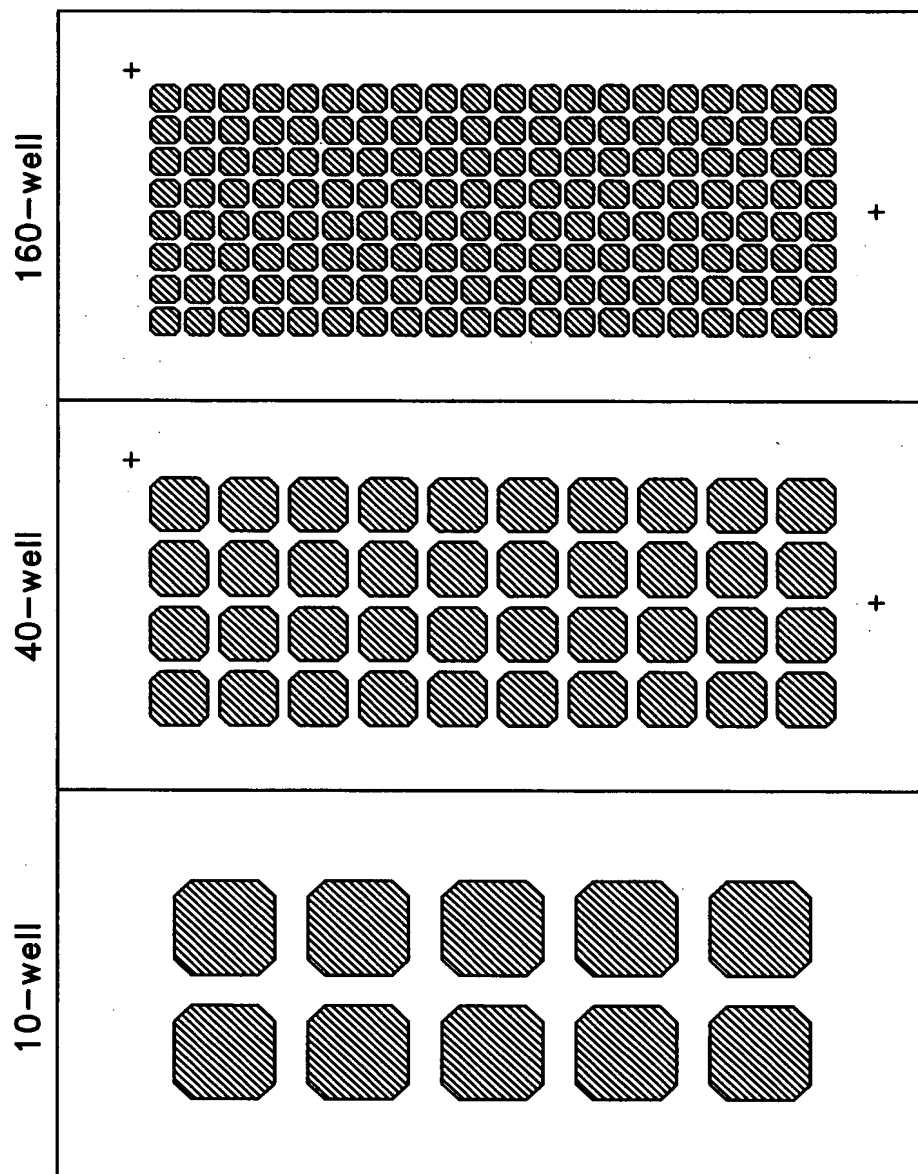


Fig. 12

R F R F R	R F R F R
F PC1 F PC2 F	F PC1 F PC2 F
R C+ R C- R	R C+ R C- R
F PN1 F PN2 F	F PN1 F PN2 F
R F R F R	R F R F R

R F R F R	R F R F R
F PC1 F PC2 F	F PC1 F PC2 F
R C+ R C- R	R C+ R C- R

<u>Probe</u>	<u>Description</u>	<u>ID</u>	<u>Name</u>	<u>3-5 Sequence</u>
F	Forward primer	FPC	F191RevCmp	ctcaacccgaatctcgcgataaaa
R	Reverse primer	RPRC	R191RevCmp	cgggtcatgtcttcaactaactg
PC1	Probe coding 1	A	191C_A	CTTTGGACCCACCCA
PC2	Probe coding 2	G	191C_G	CTTTGGGCCCCACC
PN1	Probe non-coding 1	T	191NC_T	TGGGTGGGTCCAAAGAA
PN2	Probe non-coding 2	C	191NC_C	TGGGTGGGCCCCAAAGAA
C+	Positive Control	+	F191Rev	TTTTATCGGAGATTCGGGTTGAG
C-	Negative Control	-	F481Rev	GGAGAGAGAAAGACAGTTCGTCTT

Fig. 13

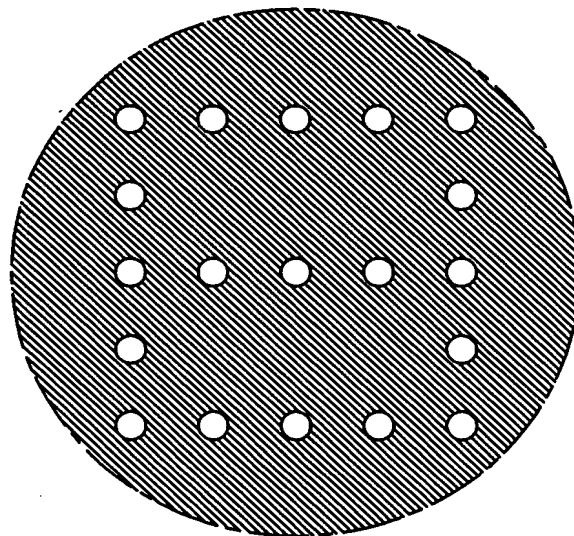


Fig. 14A

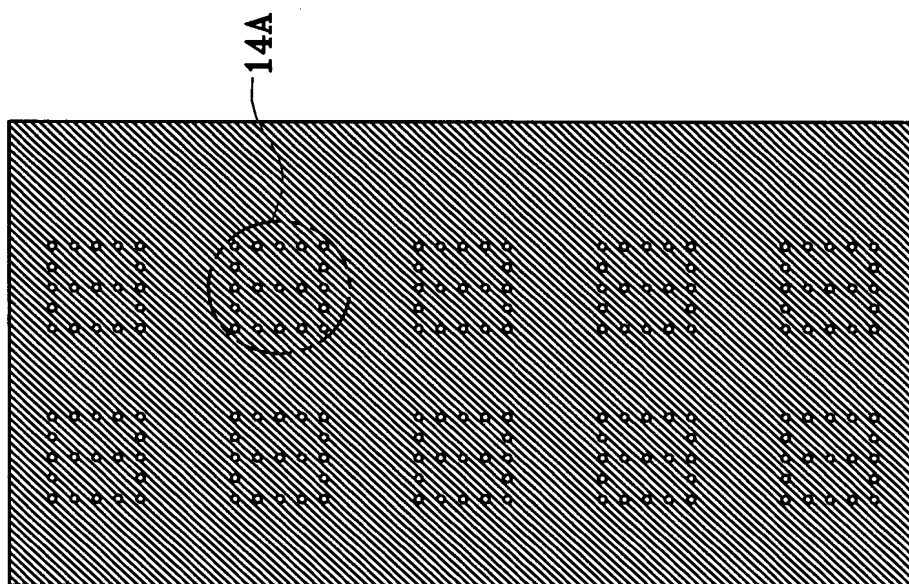


Fig. 14

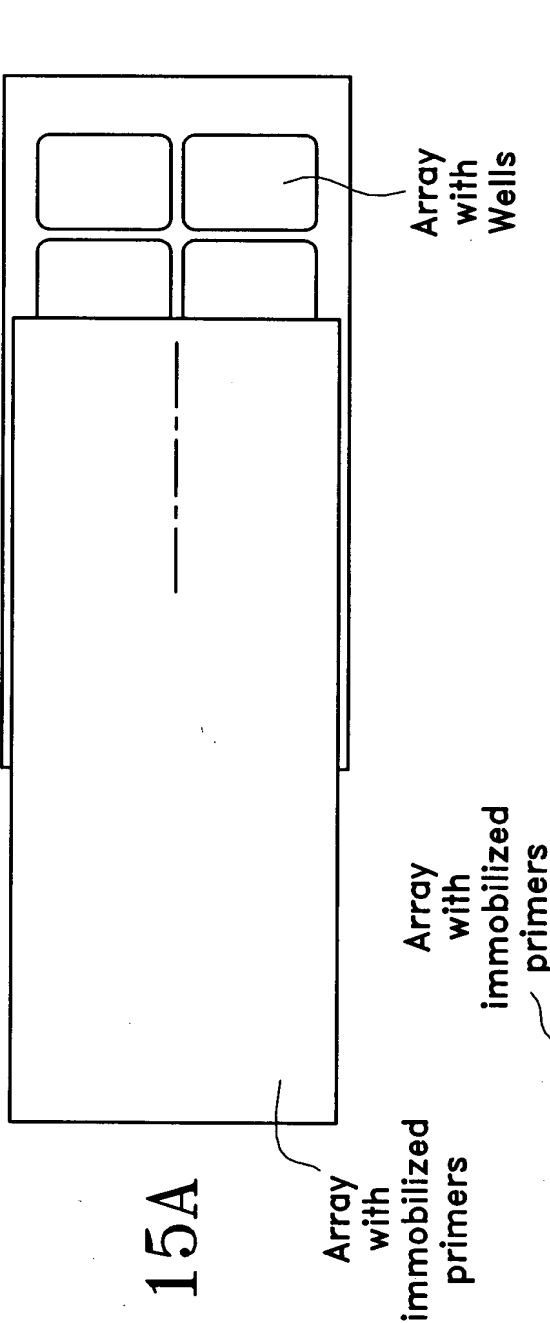


Fig. 15A

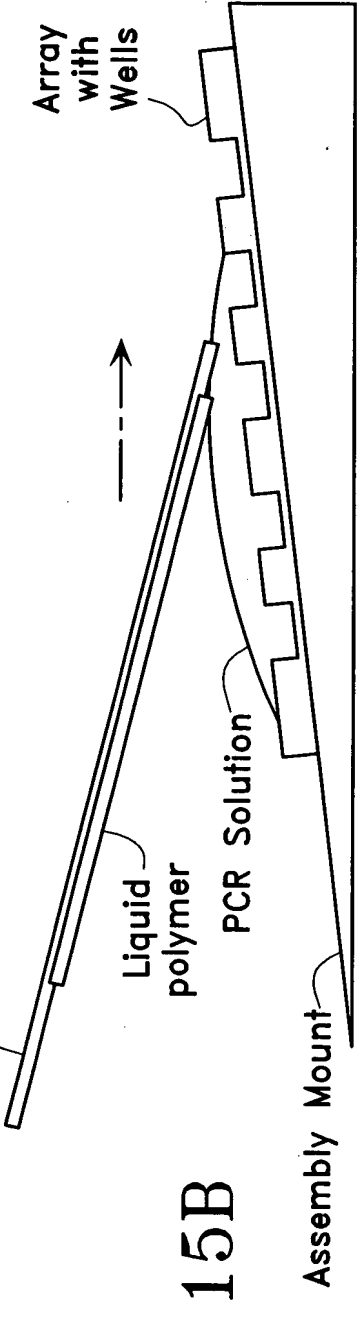


Fig. 15B

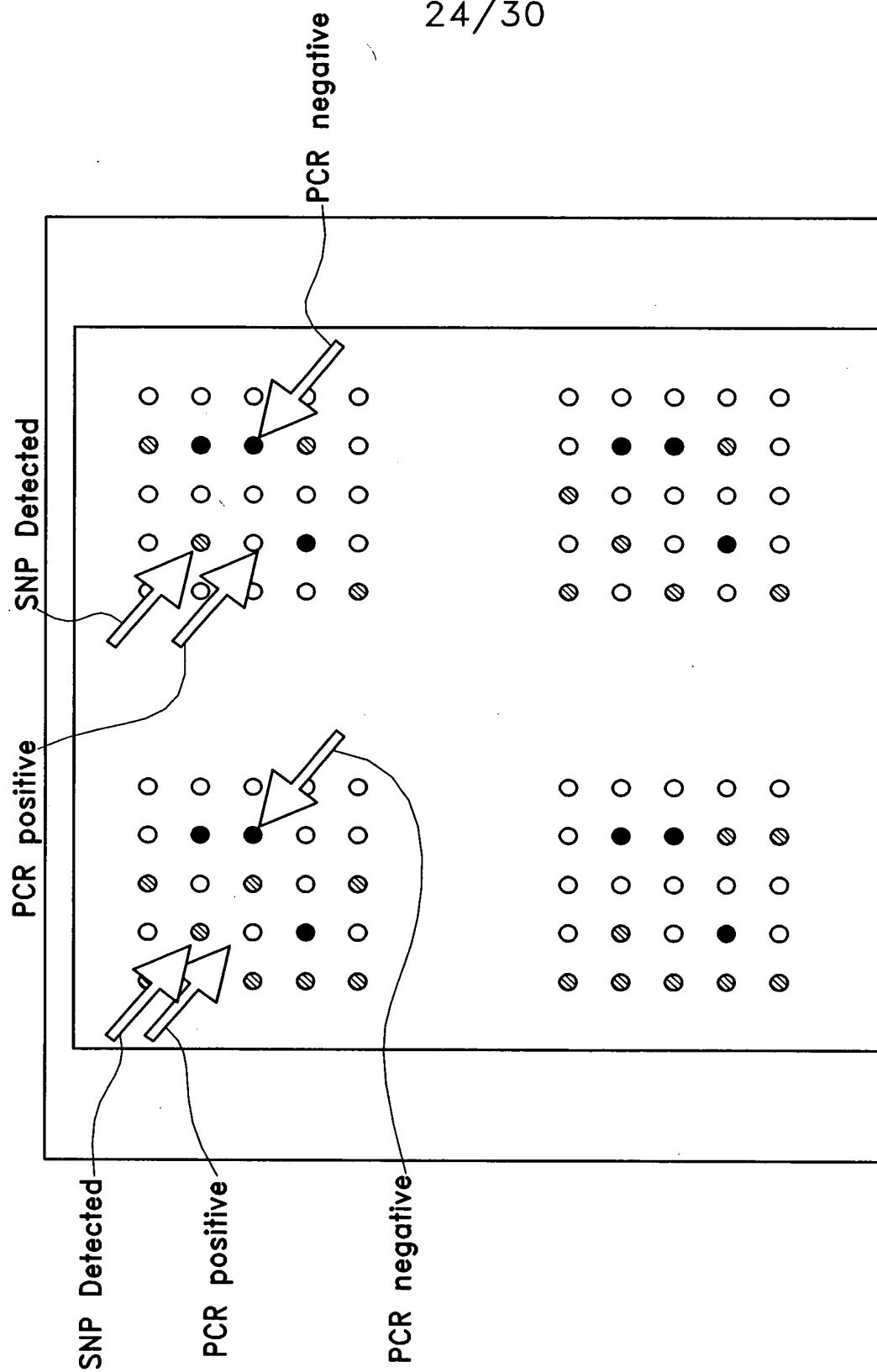


Fig. 16



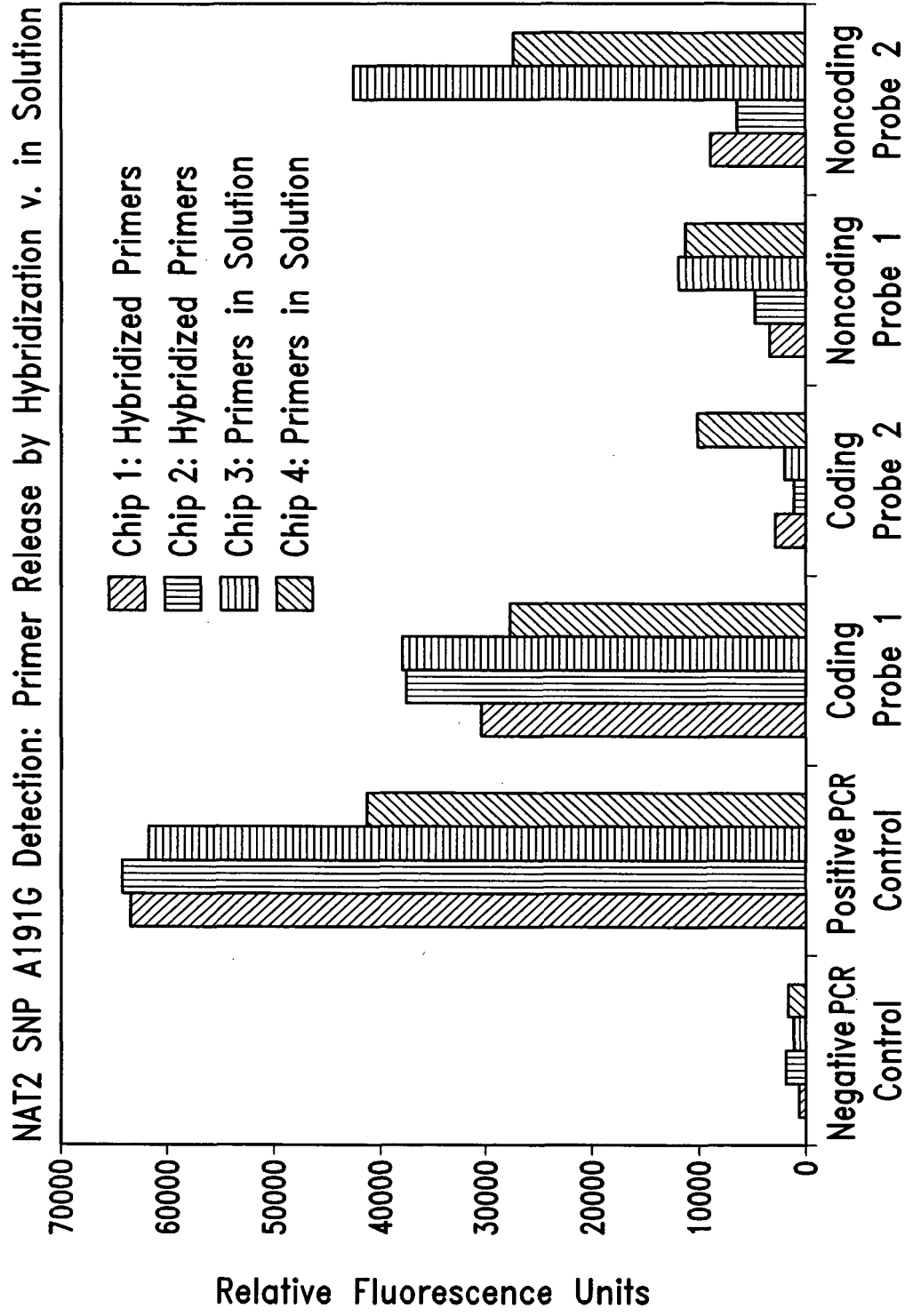


Fig. 17

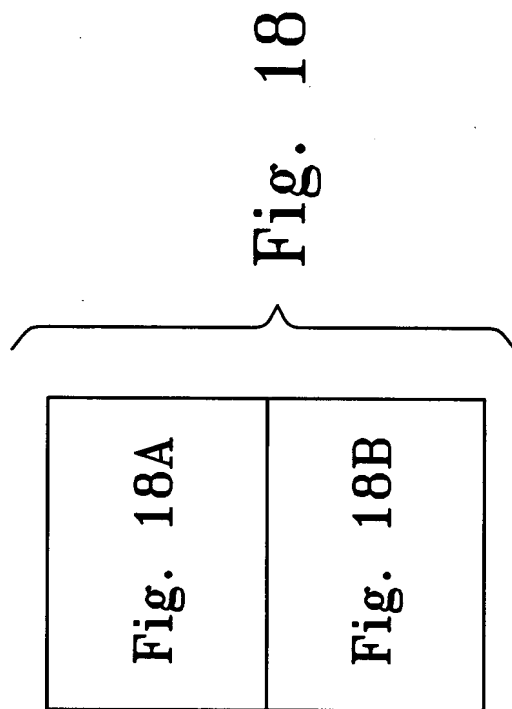
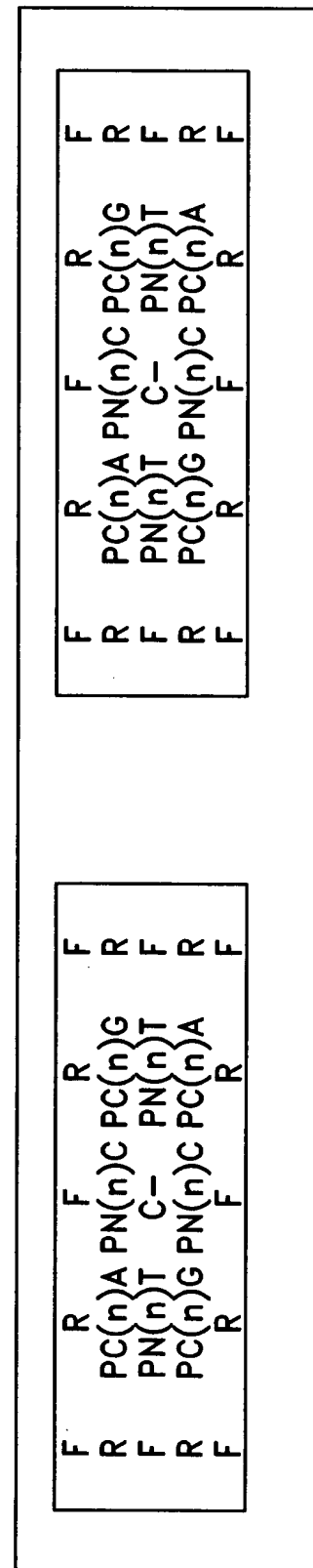


Fig. 18A



<u>Probe</u>	<u>Description</u>	<u>ID</u>	<u>Name</u>	<u>3-5 Sequence</u>
F	Forward primer	+	CompF	AAATAGCCTCTAAGCCCAACTC
R	Reverse primer	+	CompR	GTCAATCAACTTCTGTACTGGGC
PC(n)A	Probe coding (n) A	A		TCACATTGTAAGAAGAAACCA
PC(n)C	Probe coding (n) C	C		TCACATTGTAAGAAGAAACCC
PC(n)G	Probe coding (n) G	G		TCACATTGTAAGAAGAAACCG
PC(n)T	Probe coding (n) T	T		TCACATTGTAAGAAGAAACCT
PN(n)A	Probe non-coding (n) A	A		GAGACACCACCCACCCA
PN(n)C	Probe non-coding (n) C	C		GAGACACCACCCACCCC
PN(n)G	Probe non-coding (n) G	G		GAGACACCACCCACCCG
PN(n)T	Probe non-coding (n) T	T		GAGACACCACCCACCCCT
PC(n-1)A	Probe coding (n-1) A	A		TGATCACATTGTAAGAAGAAACA
PC(n-1)C	Probe coding (n-1) C	C		TGATCACATTGTAAGAAGAAACC
PC(n-1)G	Probe coding (n-1) G	G		TGATCACATTGTAAGAAGAAACG
PC(n-1)T	Probe coding (n-1) T	T		TGATCACATTGTAAGAAGAAACT
PN(n-1)A	Probe non-coding (n-1) A	A		GGAGACACCACCCACCA
PN(n-1)C	Probe non-coding (n-1) C	C		GGAGACACCACCCACCC
PN(n-1)G	Probe non-coding (n-1) G	G		GGAGACACCACCCACCG
PN(n-1)T	Probe non-coding (n-1) T	T		GGAGACACCACCCACCT
C-	negative control	-	(ACTG)	ACTGACTGACTGACTGACTG

Fig. 18B

## PCR A191G from NAT2 and extension

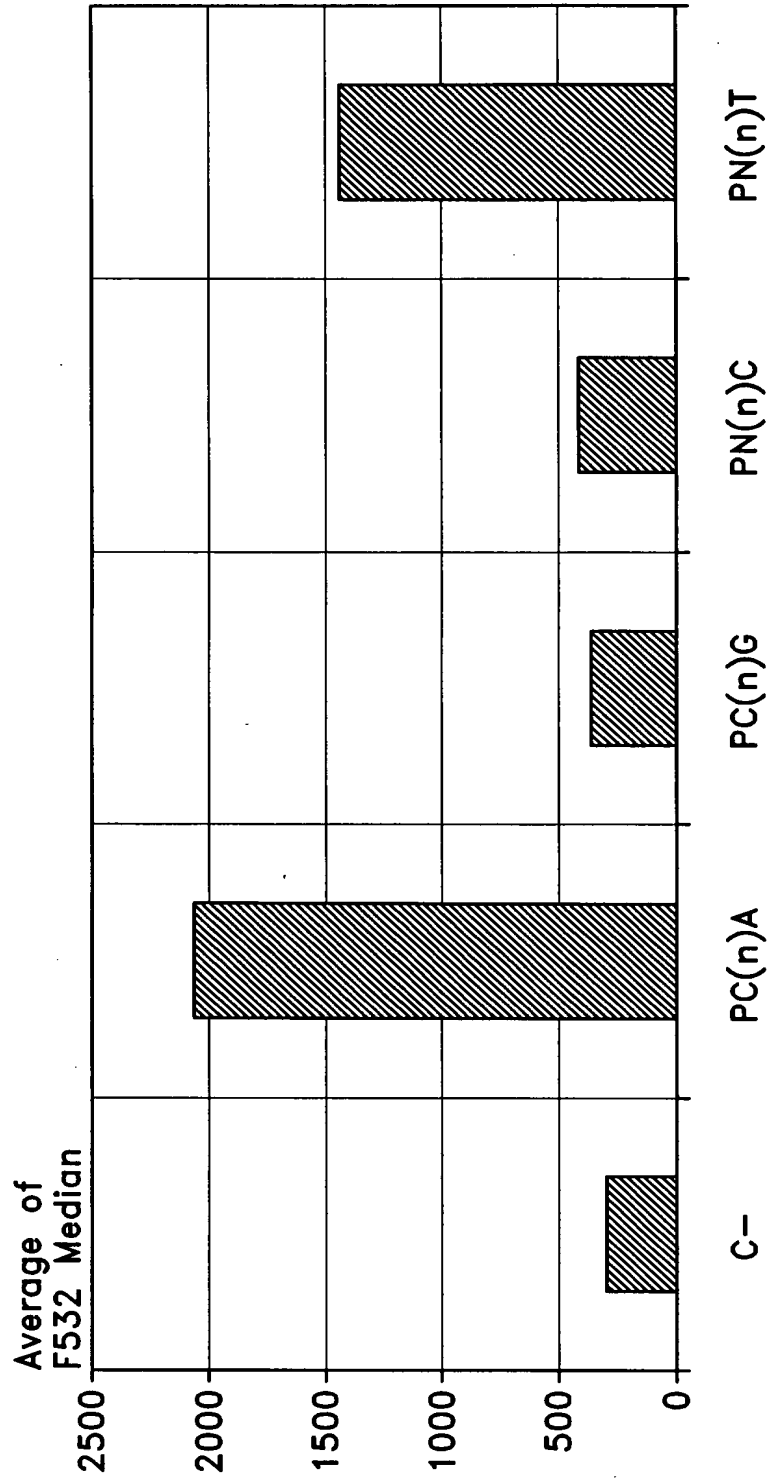


Fig. 19

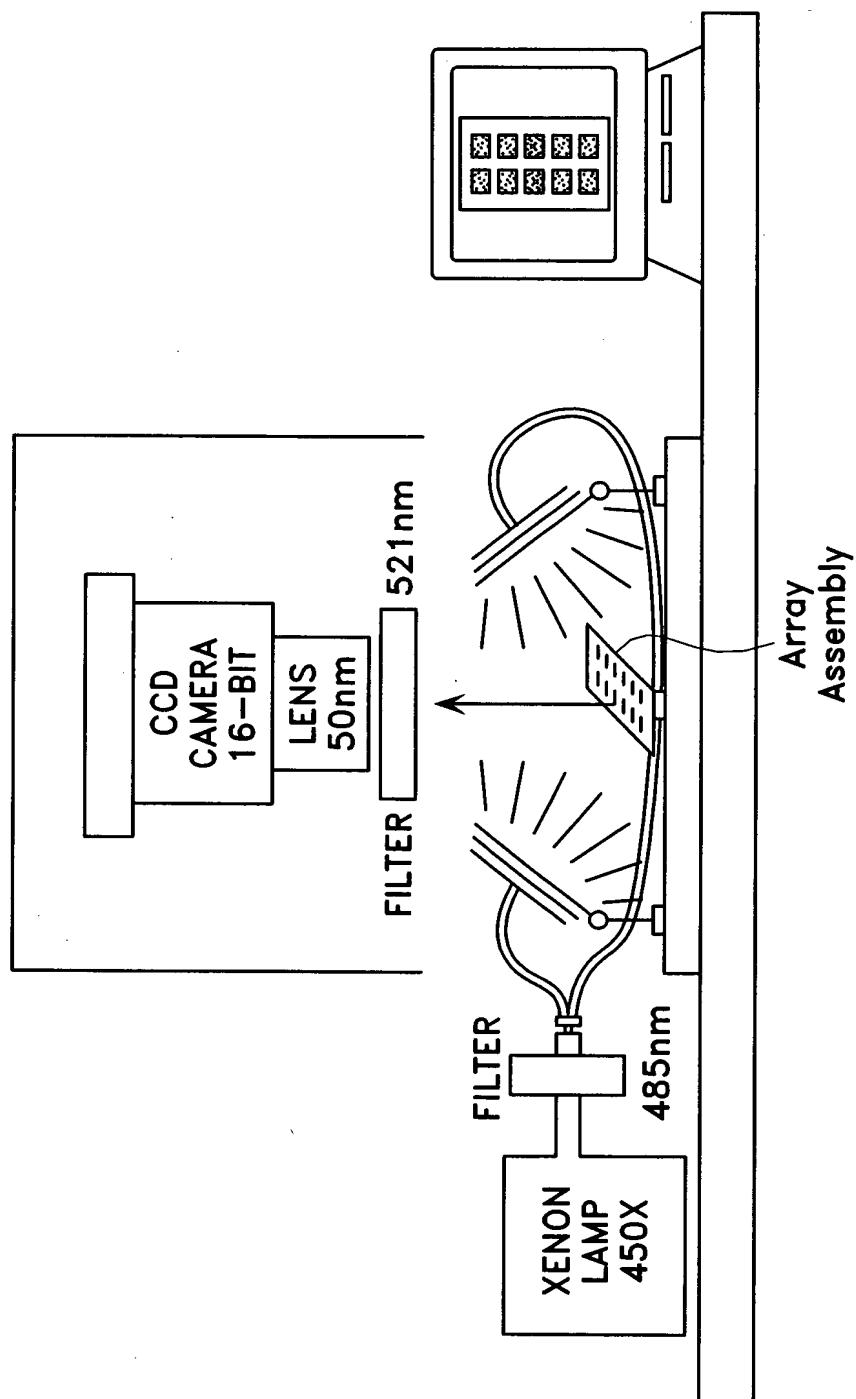


Fig. 20

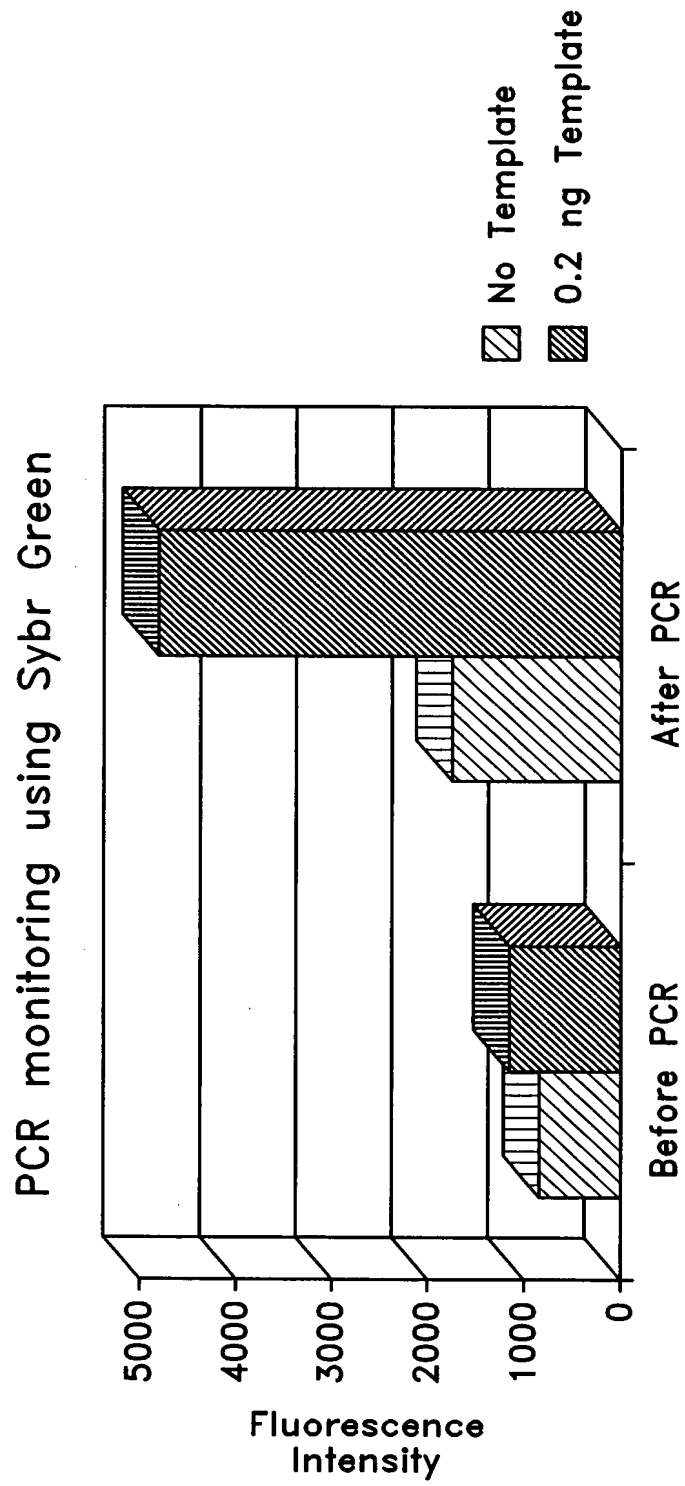


Fig. 21